

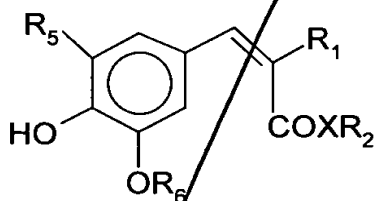
This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claim 1 (canceled)

Claim 2 (Currently Amended):

A compound of formula II



II

wherein

R_1 is selected from the group consisting of $-C(O)CH_3$, $-CO_2R_3$, and $-C(O)NH_2$, $-C(O)N(R_4)_2$, and CN ;

X is O or NH ;

R_2 is linear or branched C_1 to C_{30} alkyl;

R_3 is linear or branched C_4 C_3 to C_{20} alkyl; and

each R_4 is independently hydrogen, or linear or branched C_1 to C_8 alkyl;

R_5 is linear or branched C_1 - C_8 alkyl or hydrogen,

and R_6 is C_1 to C_8 alkyl.

Claim 3 (Currently Amended):

A compound of claim 2 wherein ~~R_6 is~~

~~C_1 - C_8 alkyl~~, X is oxygen and R_2 is linear or branched C_1 to C_4 alkyl.

Claim 4 (Currently Amended):

A compound of claim 3 wherein R_1 is

CO_2R_3 and, R_3 is linear or branched C_4 C_3 to C_8 alkyl.

Claim 5 (Original):

A compound of claim 3 wherein R_1 is $C(O)CH_3$.

Claim 6 (Original): A compound of claim 3 wherein R_1 is $-C(O)N(R_4)_2$, and at least one R_4 is hydrogen and the other is hydrogen or linear or branched C_1 to C_4 alkyl.

Claim 7 (Original): A compound of claim 3 wherein R_1 is $-C(O)N(R_4)_2$, and each R_4 is independently linear or branched C_1 to C_4 alkyl.

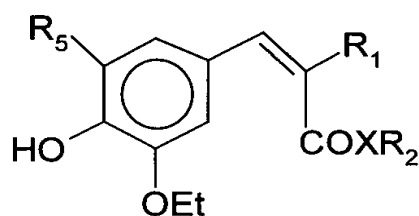
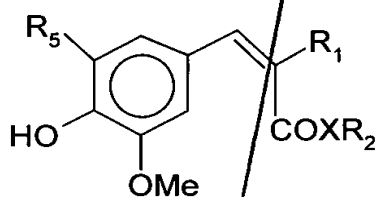
Claim 8 (Original): A compound of claim 2 wherein R_6 is C_1 - C_4 alkyl, R_1 is $-CO_2R_3$, and at least one of R_2 and R_3 is linear or branched C_8 to C_{20} alkyl.

Claim 9 (Original): A compound of claim 8 wherein R_2 and R_3 are each linear or branched C_8 - C_{12} alkyl.

Claim 10 (Original): A compound of claim 8 wherein at least one of R_2 and R_3 is linear or branched C_{12} to C_{20} alkyl.

Claim 11 (Currently Amended): A compound as in claim 1 2 wherein R_6 is methyl or ethyl.

Claim 12 (Original): A compound of one of the formulae



wherein

R_1 is selected from the group consisting $-C(O)CH_3$, $-CO_2$ (C_1 - C_8 alkyl), $-C(O)NH_2$, $-C(O)N(C_1-C_4 \text{ alkyl})_2$, and $-CN$;

X is O or NH ; and

R_2 is C_1 - C_{12} alkyl, and

R_5 is C_1 - C_8 linear or branched alkyl.

Claim 13 (Original): A compound of claim 12 wherein X is oxygen and R₂ is linear or branched C₁ to C₄ alkyl.

Claim 14 (Original): A compound of claim 12 wherein R₁ is -CO₂C₈H₁₈.

Claim 15 (Currently Amended): A compound of claim 1 2 selected from the group consisting of

ethyl- alpha- cyano-3-methoxy- 4-hydroxy cinnamate,
ethyl- alpha- acetyl-3-methoxy- 4-hydroxy cinnamate,
iso-propyl-alpha-acetyl-3-methoxy-4-hydroxy cinnamate,
iso-amyl-alpha-acetyl-3-methoxy-4-hydroxy cinnamate,
2-ethylhexyl-alpha-acetyl-3-methoxy-4-hydroxy cinnamate,
diethyl-3-methoxy- 4-hydroxy benzylidene malonate,
di-(2-ethylhexyl)-3-methoxy- 4-hydroxy benzylidene malonate,
diisoamyl-3-methoxy-4-hydroxy benzylidene malonate,
dipalmitoyl-3-methoxy-4-hydroxy benzylidene malonate,
di-dodecyl-3-methoxy-4-hydroxy benzylidene malonate,
di-isopropyl-3-methoxy-4-hydroxy benzylidene malonate,
di-(2-ethylhexyl)-3-methoxy-4-hydroxy-5-isopropyl-benzylidene malonate,
di-isoamyl-3-methoxy-4-hydroxy-5-tert.butyl-benzylidene malonate,
iso-amyl-alpha-acetyl-3-methoxy-4-hydroxy-5-isopropyl cinnamate, and
iso-amyl-alpha-acetyl-3-methoxy-4-hydroxy-5-tert.butyl cinnamate.

Claim 16 (Currently Amended): A sunscreen formulation comprising a compound of claim 1 2 in an amount effective to absorb illumination in a range above 320 nm wavelength.

Claim 17 (Currently Amended): A sunscreen formulation comprising a compound of claim 1 2 in an amount effective to absorb illumination in a range of 290 to 400 nm wavelength.

Claim 18 (Currently Amended): A sunscreen formulation as in claim 16, which comprises from 0.1 to 40 wt.% of a compound of formula I II.

Claim 19 (Original): A sunscreen formulation as in claim 16 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

Claim 20 (Currently Amended): A sunscreen formulation as in claim 18 wherein the compound of formula II ~~Formula I~~ stabilizes the additional sunscreen agent against degradation from exposure to light.

Claim 21 (Original): A sunscreen formulation as in claim 18, which additionally comprises an inorganic metal oxide sunscreen agent.

Claim 22 (Currently Amended): A personal care formulation that comprises a compound of ~~formula I~~ of claim ~~1~~ 2 in an amount effective to absorb illumination in a range above 320 nm wavelength, a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of preservatives, antifoams, perfumes, oils, waxes, propellants, dyes, pigments, waterproofing agents, emulsifiers, surfactants, thickeners, humectants, exfoliants and emollients.

Claim 23 (Original): A personal care formulation as in claim 22 which is in a form selected from the group consisting of creams, ointment, suspensions, powders, oily lotions, oleo-alcoholic lotions, fatty gels, oleo-alcoholic gels, solid sticks, foams, emulsions, liquid dispersions, sprays and aerosols.

Claim 24 (Currently Amended): A sunscreen formulation as in claim 19, which is free of photostabilizers other than compounds of formula II ~~I~~, which is present in an amount within the range of 0.1% to 40 wt% of said sunscreen formulation.

Claim 25 (Original): A method of protecting a substrate from UV radiation which comprises applying a sunscreen formulation of claim 16 to said substrate.

Claim 26 (Original): A method as of protecting a substrate of skin or hair from UV radiation which comprises applying a personal care formulation of claim 22 to a substrate of skin or hair.

Claim 27 (Currently Amended): A method of improving the photostability of a sunscreen formulation said method comprising adding a compound of formula II I of claim 1 2 to said sunscreen formulation in an amount sufficient to improve the photostability of said sunscreen agent.

Claim 28 (Currently Amended): A method as in claim 27 wherein the amount of compound of formula II I added to the sunscreen formulation falls within the range of 0.1% to 40wt% of said sunscreen formulation.

Claim 29 (Currently Amended): A method as in claim 26 wherein the personal care formulation additionally comprises an antioxidant selected from the group consisting of tocopherols, tocopherylacetate, Ascorbic acid, Emblica antioxidants, Proanthocyanidins, Rosemary antioxidants, green tea polyphenols, gallic acid, ellagic acid, butylhydroxy toluene (BHT) and butylhydroxy anisole (BHA).

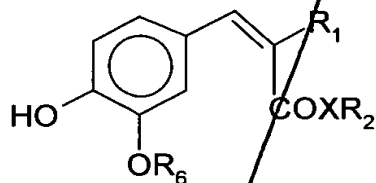
Claim 30 (Currently Amended): A personal care formulation comprising at least one compound of claim 1 2 and an antioxidant other than a compound of formula II I.

Claim 31 (Currently Amended): A personal care formulation as in claim 30 wherein the antioxidant is selected from the group consisting of Tocopherols, tocopherylacetate, Ascorbic acid, Emblica antioxidants, Proanthocyanidins, Rosemary antioxidants, green tea polyphenols, gallic acid, ellagic acid, butylhydroxy toluene (BHT) and butylhydroxy anisole (BHA).

Claim 32 (Currently Amended): A personal care formulation which comprises a compound of claim 1 2 in an amount effective to protect formulation ingredients from oxidation.

Claim 33 (Original): A personal care formulation as in claim 32, which is in the form of lipsticks, foundation, make-up, loose or press powder, eye blush, eye shadows or nail lacquer.

Claim 34 (Currently Amended): A compound of the formula below



wherein

R₁ is selected from the group consisting of -C(O)CH₃, -CO₂R₃, -C(O)NH₂, and -C(O)N(R₄)₂, ~~and~~ -CN;

X is O or NH;

R₂ is linear or branched C₁ to C₃₀ alkyl;

R₃ is linear or branched C₁ to C₂₀ alkyl;

each R₄ is independently hydrogen, or linear or branched C₁ to C₈ alkyl;

and R₆ is C₁ to C₈ alkyl;

subject to at least one of provisos a)-e):

- a) R₁ is -CO₂R₃ and R₃ is linear or branched C₃ to C₂₀ alkyl,
- b) R₁ is -C(O)N(R₄)₂ and at least one R₄ is linear or branched C₁ to C₈ alkyl,
- c) R₂ is linear or branched C₃ to C₃₀ alkyl
- d) X is NH or
- e) R₆ is C₂ to C₈ alkyl.

Claim 35 (Previously added): A compound of claim 34 wherein R₁ is -CO₂R₃ and R₃ is linear or branched C₈ to C₂₀ alkyl.

Claim 36 (Previously added): A compound of claim 34 wherein R₁ is -C(O)N(R₄)₂ and at least one R₄ is linear or branched C₁ to C₈ alkyl.

Claim 37 (Previously added): A compound of claim 34 wherein R₂ is linear or branched C₈ to C₂₀ alkyl.

Claim 38 (Previously added): A compound of claim 34 wherein X is NH.

Claim 39 (Currently Amended): A sunscreen formulation comprising a compound of claim 2 15 in an amount effective to absorb illumination in a range above 320 nm wavelength.

Claim 40 (Previously added): A sunscreen formulation comprising a compound of claim 34 in an amount effective to absorb illumination in a range above 320 nm wavelength.

Claim 41. (Previously added): A sunscreen formulation as in claim 39 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

Claim 42 (Previously added) A sunscreen formulation as in claim 40 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

Claim 43 (Currently Amended): A personal care formulation that comprises a compound of claim 2 15 in an amount effective to absorb illumination in a range above 320 nm wavelength, a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of preservatives, antifoams, perfumes, oils, waxes, propellants, dyes, pigments, waterproofing agents, emulsifiers, surfactants, thickeners, humectants, exfoliants and emollients.

Claim 44 (Previously added): A personal care formulation that comprises a compound of claim 34 in an amount effective to absorb illumination in a range above 320 nm wavelength, a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of preservatives, antifoams, perfumes, oils, waxes, propellants, dyes, pigments, waterproofing agents, emulsifiers, surfactants, thickeners, humectants, exfoliants and emollients.

Claim 45 (Previously added): A method of protecting a substrate from UV radiation which comprises applying a sunscreen formulation of claim 39 to said substrate.

Claim 46 (Previously Added): A method of protecting a substrate from UV radiation which comprises applying a sunscreen formulation of claim 40 to said substrate.

Claim 47. (Currently Amended) A method of improving the photostability of a sunscreen formulation said method comprising adding a compound of claim 2 15 to said sunscreen formulation in an amount sufficient to improve the photostability of said sunscreen agent.

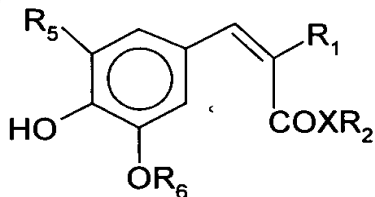
Claim 48 (Previously added): A method of improving the photostability of a sunscreen formulation said method comprising adding a compound of claim 34 to said sunscreen formulation in an amount sufficient to improve the photostability of said sunscreen agent.

Claim 49 (Previously added): A personal care formulation which comprises a compound of claim 2 in an amount effective to protect formulation ingredients from oxidation.

Claim 50. (Previously added): A personal care formulation which comprises a compound of claim 34 in an amount effective to protect formulation ingredients from oxidation.

Please enter the following new claims:

51. (New) A compound of formula II



II

wherein

Sub C1
 R_1 is selected from the group consisting of $-C(O)CH_3$, $-CO_2R_3$, and $-C(O)NH_2$, $-C(O)N(R_4)_2$;

X is O or NH;

R_2 is linear or branched C_3 to C_{30} alkyl;

R_3 is linear or branched C_1 to C_{20} alkyl; and

each R_4 is independently hydrogen, or linear or branched C_1 to C_8 alkyl;

R_5 is linear or branched C_1 - C_8 alkyl or hydrogen,

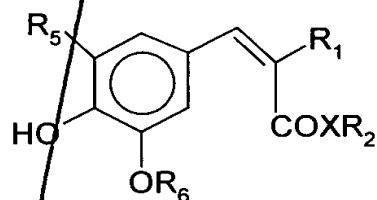
and R_6 is C_1 to C_8 alkyl.

52. (New) A compound of claim 51 wherein R_6 is C_1 - C_8 alkyl, X is oxygen and R_2 is linear or branched C_3 to C_4 alkyl.

53. (New) A compound of claim 51 wherein R_1 is CO_2R_3 and, R_3 is linear or branched C_1 to C_8 alkyl.

By
54. (New) A compound as in claim 51 wherein R_6 is methyl or ethyl.

55. (New) A compound of formula II



II

wherein

R_1 is selected from the group consisting of $-C(O)CH_3$, $-CO_2R_3$, $-C(O)NH_2$, $-C(O)N(R_4)_2$, and $-CN$;

X is O or NH;

R_2 is linear or branched C_1 to C_{30} alkyl;

R_3 is linear or branched C_1 to C_{20} alkyl; and

each R_4 is independently hydrogen, or linear or branched C_1 to C_8 alkyl;

R_5 is linear or branched C_1 - C_8 alkyl,

and R₆ is C₁ to C₈ alkyl.

56. (New) A compound of claim 55 wherein R₆ is C₁-C₈ alkyl, X is oxygen and R₂ is linear or branched C₁ to C₄ alkyl.

57. (New) A compound of claim 55 wherein R₁ is CO₂R₃ and, R₃ is linear or branched C₁ to C₈ alkyl.

58. (New) A compound of claim 55 wherein R₁ is C(O)CH₃.

59. (New) A compound of claim 55 wherein R₁ is -C(O)N(R₄)₂, and at least one R₄ is hydrogen and the other is hydrogen or linear or branched C₁ to C₄ alkyl.

60. (New) A compound of claim 55 wherein R₁ is -C(O)N(R₄)₂, and each R₄ is independently linear or branched C₁ to C₄ alkyl.

61. (New) A compound as in claim 55 wherein R₆ is methyl or ethyl.

62. (New) A compound according to claim 2, wherein R₅ is isopropyl or tert-butyl.

63. (New) A compound according to claim 22, wherein R₅ is isopropyl or tert-butyl.

64. (New) A compound according to claim 51, wherein R₅ is isopropyl or tert-butyl.

65. (New) A compound according to claim 55, wherein R₅ is isopropyl or tert-butyl.

66. (New) A sunscreen formulation comprising a compound of claim 51 in an amount effective to absorb illumination in a range above 320 nm wavelength.

67. (New) A sunscreen formulation comprising a compound of claim 51 in an amount effective to absorb illumination in a range of 290 to 400 nm wavelength.

68. (New) A sunscreen formulation as in claim 67 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

69. (New) A sunscreen formulation as in claim 67, which additionally comprises an inorganic metal oxide sunscreen agent.

70. (New) A personal care formulation that comprises a compound of claim 51 in an amount effective to absorb illumination in a range above 320 nm wavelength, a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of preservatives, antifoams, perfumes, oils, waxes, propellants, dyes, pigments, waterproofing agents, emulsifiers, surfactants, thickeners, humectants, exfoliants and emollients.

71. (New) A personal care formulation as in claim 70 which is in a form selected from the group consisting of creams, ointment, suspensions, powders, oily lotions, oleo-alcoholic lotions, fatty gels, oleo-alcoholic gels, solid sticks, foams, emulsions, liquid dispersions, sprays and aerosols.

72. (New) A sunscreen formulation as in claim 67, which is free of photostabilizers other than compounds of formula II, which is present in an amount within the range of 0.1% to 40 wt% of said sunscreen formulation.

73. (New) A personal care formulation comprising at least one compound of claim 51 and an antioxidant other than a compound of formula II.

74. (New) A sunscreen formulation comprising a compound of claim 55 in an amount effective to absorb illumination in a range above 320 nm wavelength.

75. (New) A sunscreen formulation comprising a compound of claim 55 in an amount effective to absorb illumination in a range of 290 to 400 nm wavelength.

76. (New) A sunscreen formulation as in claim 74 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

77. (New) A sunscreen formulation as in claim 74, which additionally comprises an inorganic metal oxide sunscreen agent.

78. (New) A personal care formulation that comprises a compound of claim 55 in an amount effective to absorb illumination in a range above 320 nm wavelength, a cosmetically acceptable carrier and at least one cosmetic adjuvant selected from the group consisting of preservatives, antifoams, perfumes, oils, waxes, propellants, dyes, pigments, waterproofing agents, emulsifiers, surfactants, thickeners, humectants, exfoliants and emollients.

79. (New) A personal care formulation as in claim 78 which is in a form selected from the group consisting of creams, ointment, suspensions, powders, oily lotions, oleo-alcoholic lotions, fatty gels, oleo-alcoholic gels, solid sticks, foams, emulsions, liquid dispersions, sprays and aerosols.

80. (New) A sunscreen formulation as in claim 74, which is free of photostabilizers other than compounds of formula II, which is present in an amount within the range of 0.1% to 40 wt% of said sunscreen formulation.

81. (New) A personal care formulation comprising at least one compound of claim 55 and an antioxidant other than a compound of formula II.

82. (New) A sunscreen formulation comprising a compound of claim 15 in an amount effective to absorb illumination in a range of 290 to 400 nm wavelength.

83. (New) A sunscreen formulation as in claim 39 comprising an additional organic sunscreen agent for filtering UV-B , UV-A rays or both.

84. (New) A sunscreen formulation as in claim 39, which additionally comprises an inorganic metal oxide sunscreen agent.

85. (New) A personal care formulation as in claim 43 which is in a form selected from the group consisting of creams, ointment, suspensions, powders, oily lotions, oleo-alcoholic lotions, fatty gels, oleo-alcoholic gels, solid sticks, foams, emulsions, liquid dispersions, sprays and aerosols.

86. (New) A sunscreen formulation as in claim 39, which is free of photostabilizers other than compounds of formula II, which is present in an amount within the range of 0.1% to 40 wt% of said sunscreen formulation.

87. (New) A personal care formulation comprising at least one compound of claim 15 and an antioxidant other than a compound of formula II.

88. (New) A personal care formulation which comprises a compound of claim 15 in an amount effective to protect formulation ingredients from oxidation.

89. (New) A personal care formulation which comprises a compound of claim 51 in an amount effective to protect formulation ingredients from oxidation.

90. (New) A personal care formulation which comprises a compound of claim 55 in an amount effective to protect formulation ingredients from oxidation.